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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,948	12/04/2006	Yukio Sato	P28700	6527
	7590 06/10/200 & BERNSTEIN, P.L.		EXAMINER	
1950 ROLAND	CLARKE PLACE		ARCHIE, NINA	
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			1645	
			NOTIFICATION DATE	DELIVERY MODE
			06/10/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

	Application No.	Applicant(s)
	10/553,948	SATO ET AL.
Office Action Summary	Examiner	Art Unit
	Nina A. Archie	1645
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 19 № 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under the second	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration. or election requirement.	
10) The drawing(s) filed on is/are: a) accomposite and accomposite and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct should be accomposed in the co	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documen 2. ☐ Certified copies of the priority documen 3. ☐ Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 19, 2009 has been entered.

Amendment Entry

2. The amendment filed May 19, 2009 has been entered. Claim 1 has been amended. Claims 6-9 has been cancelled. Claims 1-5 are pending and under examination.

Rejections Withdrawn

- 3. In view of the Applicant's amendment and remark following objections are withdrawn.
- a) Rejection to claims 1-5 under 35 U.S.C. 112, first paragraph is withdrawn in light of applicant's amendment thereto.

New Grounds of Rejection

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Zharkov et al 2000 Vol. 275 NO. 37 pgs. 28607-28617.

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Claims 1-2 are drawn to a polynucleotide comprising a CpG motif wherein guanine is methylated and the methylated guanine is 6-O-methyl-2'-deoxyguanosine (claim 1), wherein the length is 8-100 nucleotides (claim 2).

Zharkov et al teach a polynucleotide comprising a CpG motif wherein guanine is methylated and the methylated guanine is 6-O-methyl-2'-deoxyguanosine, wherein the length is 23 oligonucleotides (see Figure 1 and pg. 28608 paragraph 1).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zharkov et al 2000 Vol. 275 NO. 37 pgs. 28607-28617 and Krieg et al WO/1998/018810 Date May 7, 1998.

Claims 1 and 5 are drawn to a polynucleotide comprising a CpG motif wherein guanine is methylated and the methylated guanine is 6-O-methyl-2'-deoxyguanosine (claim 1), wherein a pharmaceutical composition which comprises the polynucleotide as an active ingredient and at least one pharmaceutically acceptable excipient (claim 5).

Zharkov et al teach a polynucleotide comprising a CpG motif wherein guanine is methylated and the methylated guanine is 6-O-methyl-2'-deoxyguanosine, wherein the length is 23 oligonucleotides (see Figure 1 and pg. 28608 paragraph 1).

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Zharkov et al is relied upon as set forth supra. However Zharkov et al does not teach a polynucleotide, wherein a pharmaceutical composition which comprises the polynucleotide as an active ingredient and at least one pharmaceutically acceptable excipient (claim 5).

Krieg et al teach methylated oligonucleotides (polynucleotide) comprising a CpG motif, wherein the length is 8 to 100 nucleotides.

Krieg et al further teach a pharmaceutical composition which comprises the polynucleotide as an active ingredient and at least one pharmaceutically acceptable excipient (see Krieg et al in its entirety and claims).

It would have been prima facie obvious at the time the invention was made to produce a polynucleotide as taught Zharkov et al teach and to incorporate into a pharmaceutical composition as taught by Krieg et al in order to induce an immune response.

One would have reasonable expectation of success because a polynucleotide CpG motif is well known in the art as disclosed by Krieg et al.

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Conclusion

6. No claims allowed.

Claims 3-5 are free of the art.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nina A. Archie whose telephone number is 571-272-9938. The examiner can normally be reached on Monday-Friday 8:30-5:00p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner supervisor, Robert Mondesi can be reached on 571-272-0956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nina A Archie

Examiner

GAU 1645

REM 3B31

/Robert A. Zeman/

for Nina Archie, Examiner of Art Unit 1645